Appl. No. 10/690,905
Amdt. dated March 23, 2005
Reply to Office action of December 23, 2004

Amendments to the Claims:

  This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A computer system, comprising:

  a portable computer, including:

    a CPU;

    a system memory coupled to said processor;

    a bridge logic device coupled to said CPU;

    control logic coupled to said bridge logic device; and

    a peripheral bus coupled to said bridge logic device and a first interface connector;

  an expansion device comprising a drive wedge containing at least one storage device and having a second interface connector that mates with the first interface connector of said portable computer to permit the portable compute to be docked to and undocked from said expansion device while the portable computer is powered on and fully operational;

  said control logic receiving an expansion device detection input signal and said control logic detects a transition in the expansion device detection input signal level when the portable computer is docked to or undocked from said expansion device;

  a port replicator that provides connections to various peripheral devices and having an electrical connector to said drive wedge, and said portable computer capable of being docked to said port replicator while said portable computer is powered on and fully operational; **and**

  the port replicator provides a port replicator attached input signal to the control logic via the drive wedge and said control logic detects a

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> transition in the port replicator attached input signal level when the
> port replicator is docked to or undocked from the drive wedge.

2.   (Original) The computer system of claim 1 wherein said control logic asserts a control logic system management interrupt signal to said bridge logic device upon detecting a change in the level of he expansion device detection signal so that that bridge logic device will initiate a sequence of events that will permit the portable computer to communicate with the expansion device if docking has occurred or disable communication with the expansion device if the portable computer is undocked from the expansion device.

3.   (Original) The computer system of claim 1 wherein said portable computer also includes an expansion device power switch that switches power on to said expansion device when the portable computer is docked to said expansion device thereby causing the expansion device detection input signal to change state.

4.   (Original) The computer system of claim 2 wherein said bridge logic device asserts an interrupt signal to said CPU upon detecting an asserted control logic system management interrupt signal, said CPU responds by executing code that determines that said portable computer has been docked to or undocked from said expansion device.

5.   (Previously presented) The computer system of claim 4 wherein said bridge logic device electrically couples to said expansion device via a data bus that is disabled when said portable computer is not docked to said expansion device and said CPU directs said bridge logic device to enable said data bus when said CPU receives the interrupt signal from said bridge logic device.

6.   (Original) The computer system of claim 5 wherein the interrupt signal from said bridge logic device to said CPU is a system management interrupt signal.

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7.   (Original) The computer system of claim 5 wherein said expansion device
includes at least one storage devices and said data bus comprises an Integrated
Drive Electronics bus.

8.   (Canceled).

9.   (Canceled).

10.   (Canceled).

11.   (Original) The computer system of claim 10 wherein said control logic
determines that said portable computer has been docked to said port replicator
when said control logic detects the port replicator attached input signal at the
logic low state.

12.   (Original) The computer system of claim 11 wherein said control logic
asserts a control logic system management interrupt signal to said bridge logic
device upon detecting a logic low state of the port replicator attached input signal
so that that bridge logic device will initiate a sequence of events that will permit
the portable computer to communicate with the port replicator.

13.   (Previously presented) A portable computer that can be docked to a drive
wedge and a port replicator while the portable computer is on and fully functional,
comprising:

        a CPU;

        a host bridge coupled to said CPU;

        a secondary bridge device coupled to said CPU over a system bus;

        a control logic coupled to said secondary bridge device over an expansion
                bus, said control logic receiving WEDGED# input signal that
                indicates whether the drive wedge is docked to the portable
                computer and a PRATTACHED# input signal that indicates whether

the port replicator is docked to the portable computer, both the WEDGED# and PRATTACHED# input signals connected to pull-up resistors that forces the WEDGED# and PRATTACHED# input signals to the control logic to be in the logic high state when the drive wedge and port replicator are not docked to the portable computer; and

code executed by said CPU following either or both of the WEDGED# and PRATTACHED# input signals driven to the logic low state upon detecting docking the portable computer to the drive wedge or port replicator, said code reconfigures the portable computer to permit communications with the drive wedge or port replicator when docked to the portable computer,

wherein said drive wedge can be docked to said portable computer while said portable computer is on and fully operational and the docked combination of said drive wedge and portable computer can be docked to said port replicator while said portable computer is on and fully operational.

14.   (Currently amended) The portable computer of claim 13 further including a wedge power switch that switches on power to the drive wedge when the drive wedge is docked to the portable computer, said wedge power switch switched on by the-a WEDGED# input signal to the control logic.

15.   (Previously presented) The portable computer of claim 13 wherein said control logic comprises a keyboard controller.

16.   (Canceled).

17.   (Currently amended) A method of hot docking a computer to expansion equipment, comprising:

~~connecting a drive wedge to said computer while said computer is on and fully operational, said drive wedge containing at least one storage device;~~

~~switching on power to said drive wedge;~~

~~detecting a transition of a signal from said drive wedge indicating that the drive wedge has been connected to said computer;~~

~~enabling a data bus that electrically couples the computer to the drive wedge; and~~

connecting a port replicator to ~~drive wedge while~~ said computer ~~said drive wedge are on and fully operational;~~ and

the computer includes a configurable digital portion of a network interface and the port replicator includes an analog portion of the network interface and further comprising:

masking a configuration select input signal to said digital portion to prevent the digital portion from responding to a configuration request when the port replicator is not coupled to the computer.

18.   (Canceled).

19.   (Previously presented) The method of claim 17 further including detecting a transition of a signal from said port replicator indicating that the port replicator has been coupled to said computer.

20.   (Canceled).

21.   (Canceled).

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22.   (Currently amended) A portable computer, comprising:

a CPU;

a configurable portion of a network interface;

a port replicator including a second portion of the network interface; and

a display coupled to said CPU;

a means for masking a configuration select signal to the configurable portion of the network interface to prevent the configurable portion of the network interface from responding to a configuration request when the port replicator is not coupled to the portable computer.hot docking said portable computer to a drive wedge containing a storage device while said portable computer is on and fully operational and also for hot docking the portable computer and drive wedge to a port replicator while said computer and drive wedge are on and fully operational.

23.   (Canceled).

24.   (Canceled).

25.   (Canceled).

26.   (Canceled).